

=> fil hcaplus  
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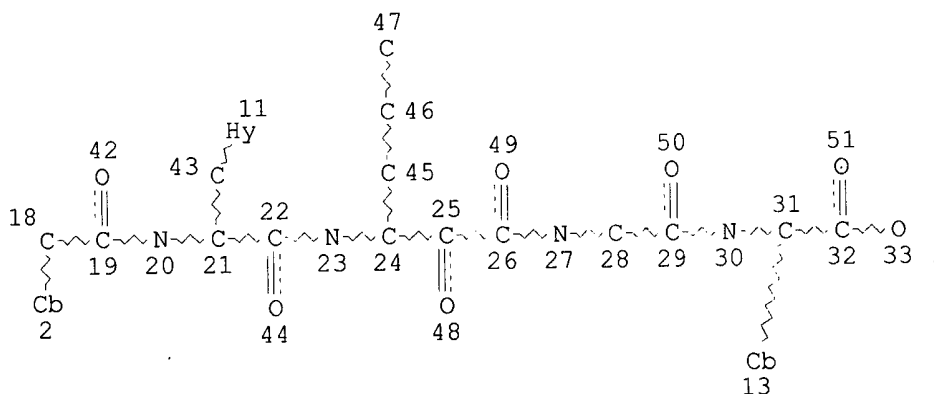
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FILE COVERS 1907 - 17 Sep 2003 VOL 139 ISS 12  
 FILE LAST UPDATED: 16 Sep 2003 (20030916/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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 L5 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 29

STEREO ATTRIBUTES: NONE  
 L8 16 SEA FILE=REGISTRY SSS FUL L5  
 L9 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L8

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=> d ibib abs hitrn 19 1

L9 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:90007 HCAPLUS

DOCUMENT NUMBER: 136:151439

TITLE: Preparation of novel peptides as NS3-serine protease inhibitors of hepatitis C virus

INVENTOR(S): Saksena, Anil K.; Girijavallabhan, Viyyoor Moopil; Bogen, Stephane L.; Lovey, Raymond G.; Jao, Edwin E.; Bennett, Frank; McCormick, Jinping L.; Wang, Haiyan; Pike, Russell E.; Liu, Yi-Tsung; Chan, Tin-Yau; Zhu, Zhaoning; Arasappan, Ashok; Chen, Kevin X.; Venkatraman, Srikanth; Parekh, Tejal N.; Pinto, Patrick A.; Santhanam, Bama; Njoroge, F. George; Ganguly, Ashit K.; Vaccaro, Henry A.; Kemp, Scott Jeffrey; Levy, Odile Esther; Lim-Wilby, Marguerita; Tamura, Susan Y.

PATENT ASSIGNEE(S): Schering Corporation, USA; Corvas International, Inc.

SOURCE: PCT Int. Appl., 188 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

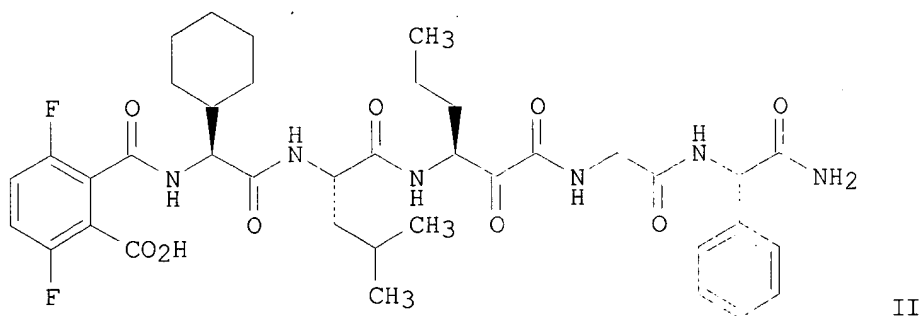
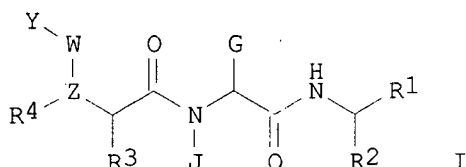
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008187	A1	20020131	WO 2001-US22813	20010719
WO 2002008187	C2	20030103		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002160962	A1	20021031	US 2001-909012	20010719
EP 1303487	A1	20030423	EP 2001-959041	20010719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001012666	A	20030610	BR 2001-12666	20010719
NO 2003000271	A	20030318	NO 2003-271	20030120
PRIORITY APPLN. INFO.: US 2000-220107P P 20000721				
WO 2001-US22813 W 20010719				

OTHER SOURCE(S): MARPAT 136:151439

GI



AB Novel peptides I [ $G, J, Y = \text{independently } H, \text{ alkyl, alkyl-aryl, heteroalkyl, heteroaryl, aryl-heteroaryl, alkyl-heteroaryl, cycloalkyl, alkoxy, alkyl-aryloxy, aryloxy, heteroaryloxy, heterocycloalkyloxy, cycloalkyloxy, alkylamino, arylamino, alkyl-aryl amino, arylamino, heteroaryl amino, cycloalkyl amino, and heterocycloalkyl amino}$ ;  $Z = O, N, CH$ ;  $W = \text{null}, CO, CS, SO_2$ ;  $R^1 = COR^5, B(OR)^2$ ;  $R^5 = H, OH, OR^8, NR^9R^{10}, CF_3, C_2F_5, C_3F_7, CF_2R^6, R^6, COR^7$ ;  $R^7 = H, OH, OR^8, CHR^9R^{10}, NR^9R^{10}$ ;  $R^6, R^8-10 = \text{independently } H, \text{ alkyl, aryl, heteroalkyl, cycloalkyl, arylalkyl, peptide deriv., etc.}$ ;  $R, R^2-4 = \text{independently } H, \text{ alkyl, alkenyl, cycloalkyl, heterocycloalkyl, alkoxy, aryloxy, alkylthio, arylthio, amino, amido, ester, carboxylic acid, carbamate, etc.}$ ] and their pharmaceutically salts which have hepatitis C virus (HCV) protease inhibitory activity were prepd. via soln. or solid-phase peptide coupling methods. Thus, peptide II was prepd. using solid-phase methods and showed a  $K_i$  value in the range of 0-100 nM for HCV protease inhibitory activity. This invention also discloses pharmaceutical compns. comprising such compds. as well as methods of using them to treat disorders assocd. with the HCV protease.

IT 393580-31-9P 393580-32-0P 393580-33-1P  
393580-34-2P 393580-35-3P 393580-36-4P  
393580-53-5P 393580-54-6P 393580-55-7P  
393580-56-8P 393580-79-5P 393582-29-1P  
393582-31-5P 393582-32-6P 393817-40-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of novel peptides as NS3-serine protease inhibitors of hepatitis C virus)

IT 393581-59-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of novel peptides as NS3-serine protease inhibitors of hepatitis C virus)

REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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 COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966  
 FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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=> s 18  
 L10 0 L8

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=> fil reg  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 16 SEP 2003 HIGHEST RN 586945-00-8  
 DICTIONARY FILE UPDATES: 16 SEP 2003 HIGHEST RN 586945-00-8

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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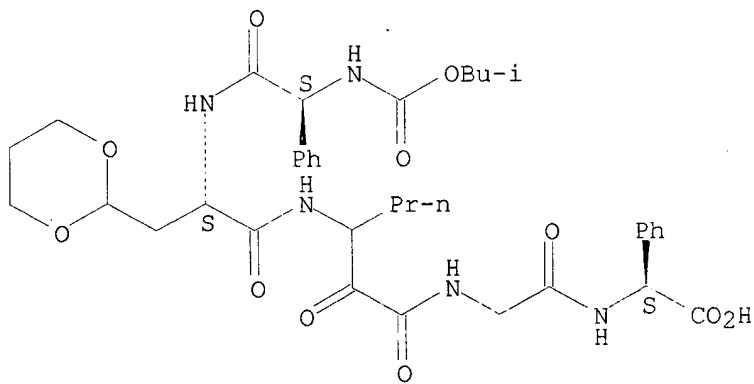
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[illegible]

1 REFERENCES IN FILE CA (1937 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

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L8 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2003 ACS on STN
RN 393582-32-6 REGISTRY
CN Glycine, (2S)-N-[(2-methylpropoxy)carbonyl]-2-phenylglycyl-3-(1,3-dioxan-2-
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SR CA
LC STN Files: CA, CAPLUS, USPATFULL
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Absolute stereochemistry.



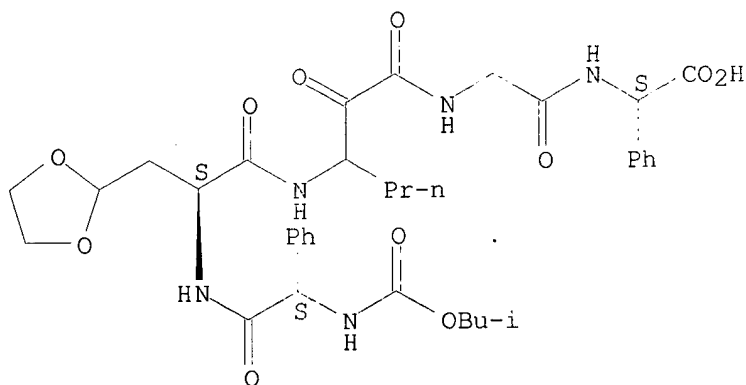
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 136:151439

L8 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2003 ACS on STN  
 RN 393582-31-5 REGISTRY  
 CN Glycine, (2S)-N-[(2-methylpropoxy)carbonyl]-2-phenylglycyl-3-(1,3-dioxolan-2-yl)-L-alanyl-3-amino-2-oxohexanoylglycyl-2-phenyl-, (2S)- (9CI) (CA INDEX NAME)  
 FS PROTEIN SEQUENCE; STEREOSEARCH  
 MF C35 H45 N5 O11  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

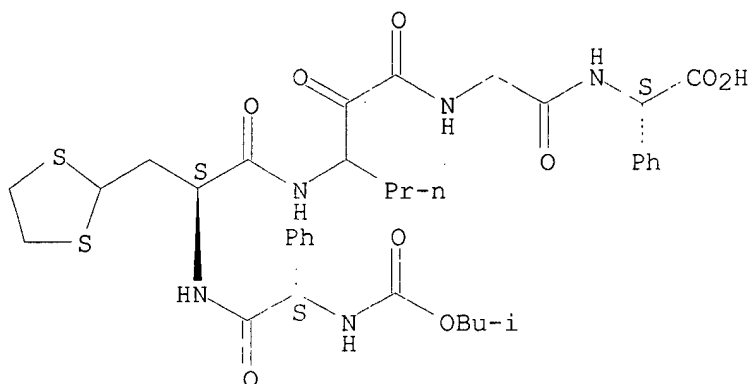
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L8 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2003 ACS on STN  
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 LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.



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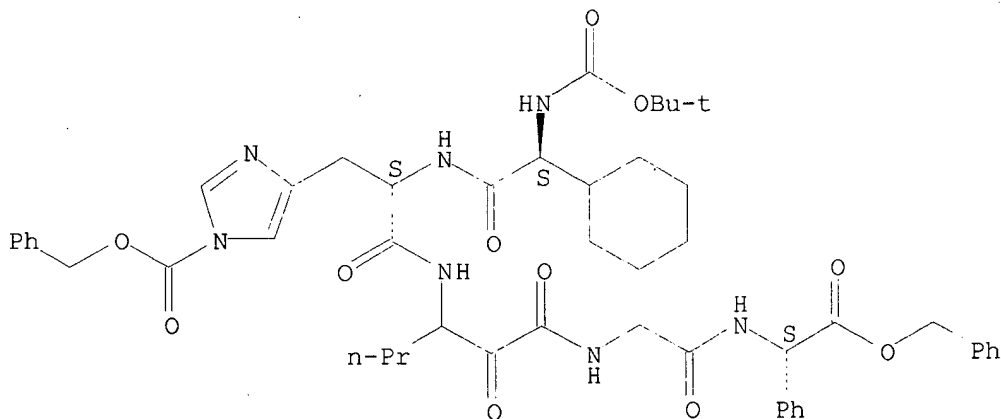
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

REFERENCE 1: 136:151439

L8 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 393581-59-4 REGISTRY  
CN Glycine, (2S)-2-cyclohexyl-N-[(1,1-dimethylethoxy)carbonyl]glycyl-1-  
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, phenylmethyl ester, (2S)- (9CI) (CA INDEX NAME)  
FS PROTEIN SEQUENCE; STEREOSEARCH  
MF C50 H61 N7 O11  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

Absolute stereochemistry.



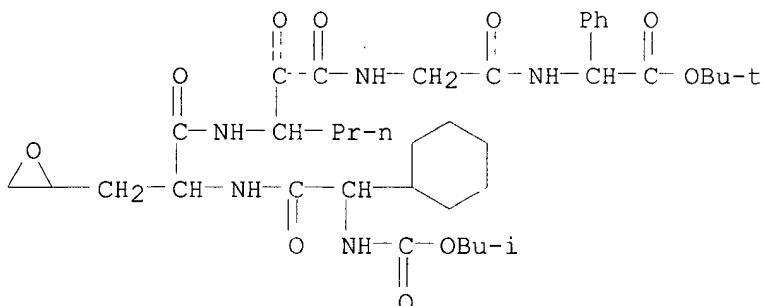
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1 REFERENCES IN FILE CAPLUS (1937 TO DATE)

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 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
 FS 3D CONCORD; PROTEIN SEQUENCE  
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 LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*



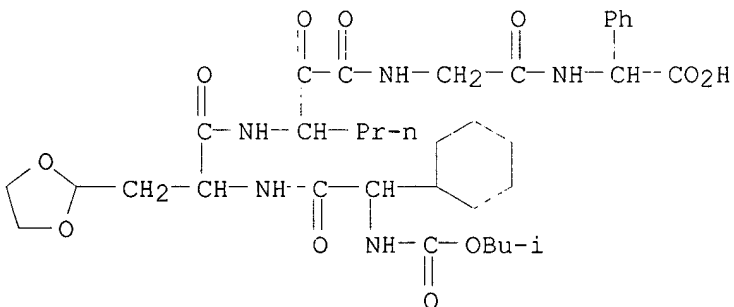
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REFERENCE 1: 136:151439

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 FS 3D CONCORD; PROTEIN SEQUENCE  
 MF C35 H51 N5 O11  
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 LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*



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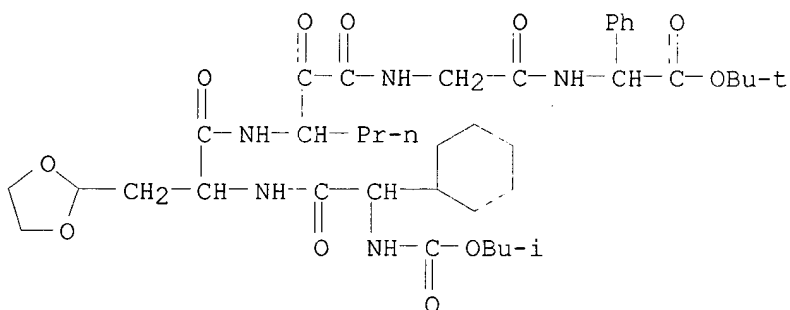


1 REFERENCES IN FILE CA (1937 TO DATE)  
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L8 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 393580-55-7 REGISTRY  
CN Glycine, 2-cyclohexyl-N-[(2-methylpropoxy)carbonyl]glycyl-3-(1,3-dioxolan-2-yl)alanyl-3-amino-2-oxohexanoylglycyl-2-phenyl-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD; PROTEIN SEQUENCE  
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LC STN Files: CA, CAPLUS, USPATFULL

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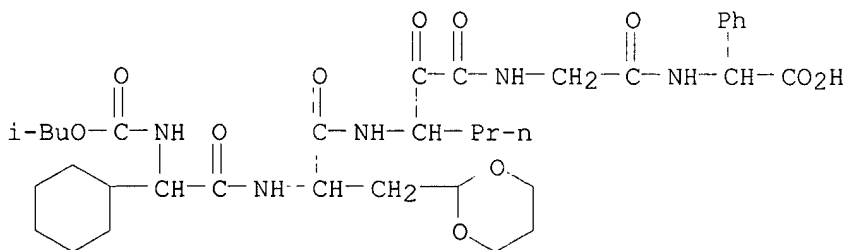
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CN Glycine, 2-cyclohexyl-N-[(2-methylpropoxy)carbonyl]glycyl-3-(1,3-dioxan-2-yl)alanyl-3-amino-2-oxohexanoylglycyl-2-phenyl- (9CI) (CA INDEX NAME)  
FS 3D CONCORD; PROTEIN SEQUENCE  
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LC STN Files: CA, CAPLUS, USPATFULL

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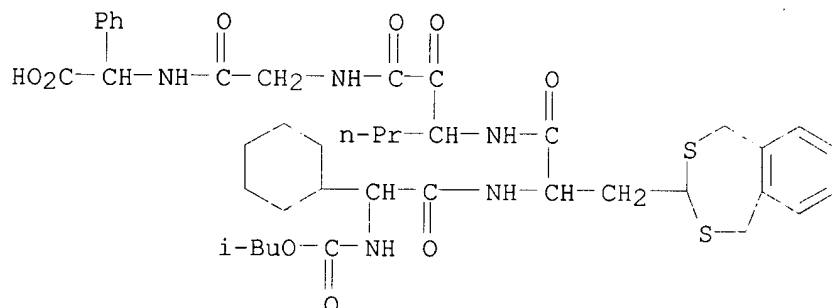
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RN 393580-53-5 REGISTRY  
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SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

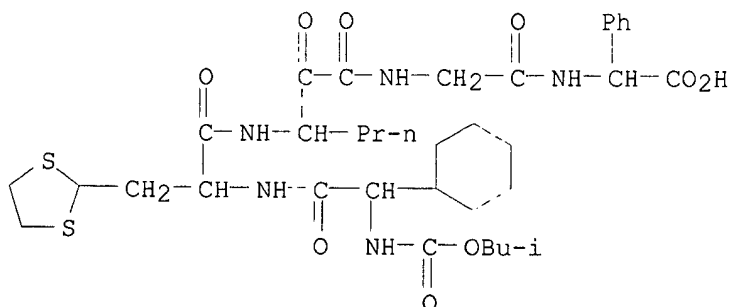


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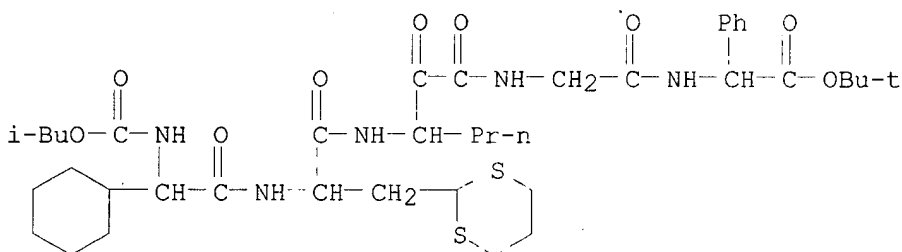
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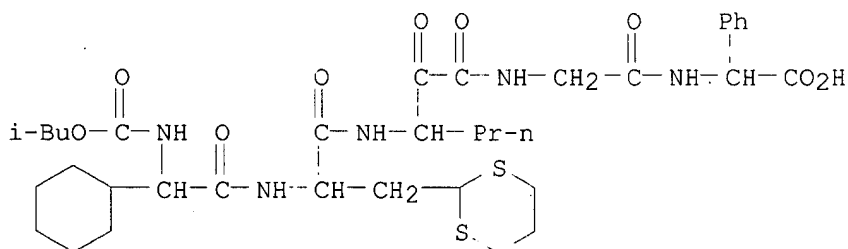
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L8 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2003 ACS on STN  
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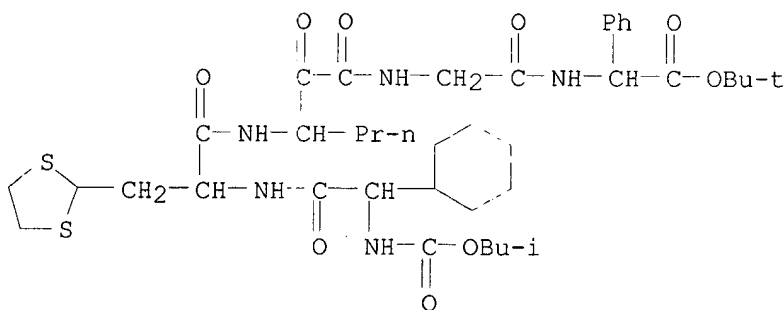
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L8 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 393580-33-1 REGISTRY  
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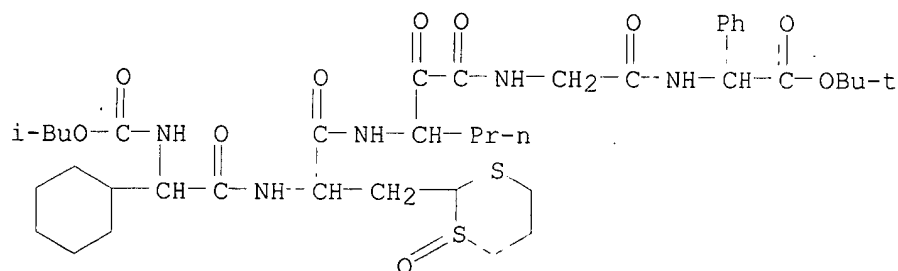
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\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*



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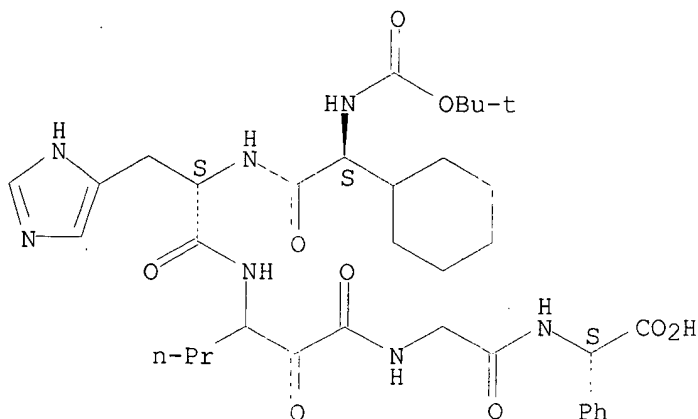
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LC STN Files: CA, CAPLUS, USPATFULL

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

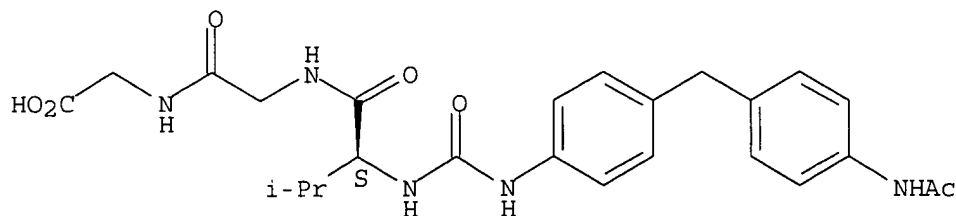
Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1937 TO DATE)  
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REFERENCE 1: 136:151439



=> d hitstr 3

L6 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN

IT **261787-68-2P**

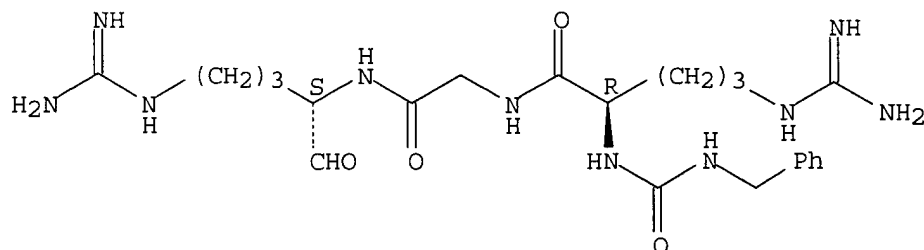
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PNU (Preparation, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(design, synthesis and SAR of arginine aldehyde factor Xa inhibitors based on the Arg-Gly-Arg tripeptide sequence)

RN 261787-68-2 CAPLUS

CN Glycinamide, N2-[[[(phenylmethyl)amino]carbonyl]-D-arginyl-N-[(1S)-4-[(aminoiminomethyl)amino]-1-formylbutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib 2,3

L6 ANSWER 2 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2000:118433 CAPLUS

DN 132:289738

TI Isocyanate-Specific Hemoglobin Adduct in Rats Exposed to 4,4'-Methylenediphenyl Diisocyanate

AU Sabbioni, Gabriele; Hartley, Renate; Henschler, Dietrich; Hoellrigl-Rosta, Andreas; Koeber, Robert; Schneider, Siegfried

CS Walther-Straub-Institut fuer Pharmakologie und Toxikologie, Ludwig-Maximilians-Universitaet Muenchen, Munich, D-80336, Germany

SO Chemical Research in Toxicology (2000), 13(2), 82-89

CODEN: CRTOEC; ISSN: 0893-228X

PB American Chemical Society

DT Journal

LA English

RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD

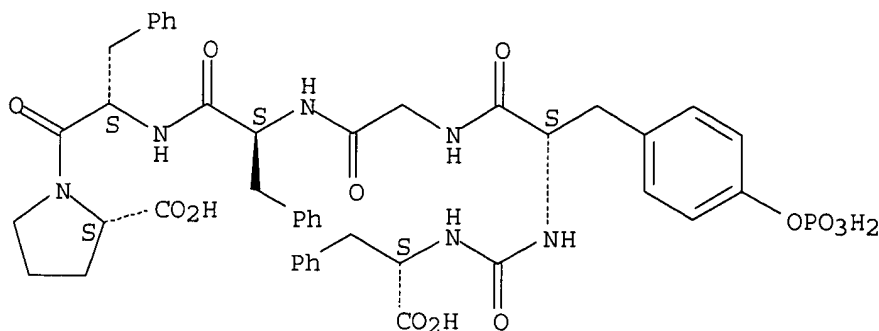
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN  
AN 2000:30818 CAPLUS  
DN 132:231498  
TI Design, synthesis and structure-activity relationship of a series of arginine aldehyde factor Xa inhibitors. Part 1: Structures based on the (D)-Arg-Gly-Arg tripeptide sequence  
AU Marlowe, Charles K.; Sinha, Uma; Gunn, Alice C.; Scarborough, Robert M.  
CS COR Therapeutics, Inc., South San Francisco, CA, 94080, USA  
SO Bioorganic & Medicinal Chemistry Letters (2000), 10(1), 13-16  
CODEN: BMCLE8; ISSN: 0960-894X  
PB Elsevier Science Ltd.  
DT Journal  
LA English  
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d hitstr 4

L6 ANSWER 4 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN  
IT **256931-74-5P**  
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(design and synthesis of novel Src homol.-2 domain inhibitors)  
RN 256931-74-5 CAPLUS  
CN L-Proline, N-[[[(1S)-1-carboxy-2-phenylethyl]amino]carbonyl]-O-phosphono-L-tyrosylglycyl-L-phenylalanyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



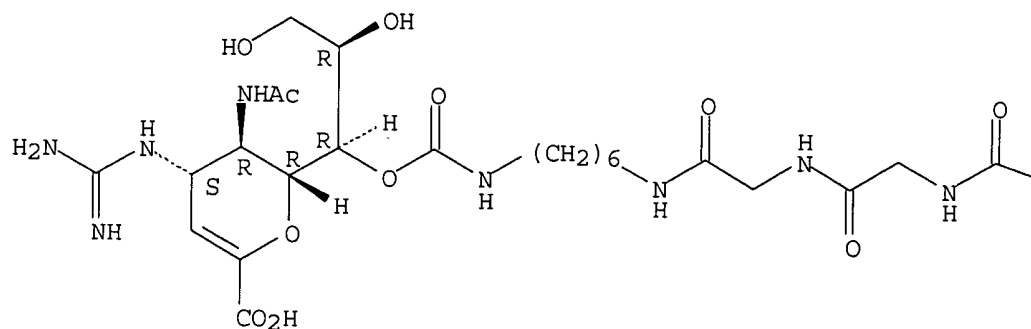
=> d hitstr

L6 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN  
IT **292150-24-4P**  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(prepn. of dimeric ulosonic acids as antiviral agents and inhibitors of neuraminidase)  
RN 292150-24-4 CAPLUS  
CN D-glycero-D-galacto-Non-2-enonic acid, 5-(acetylamino)-4-

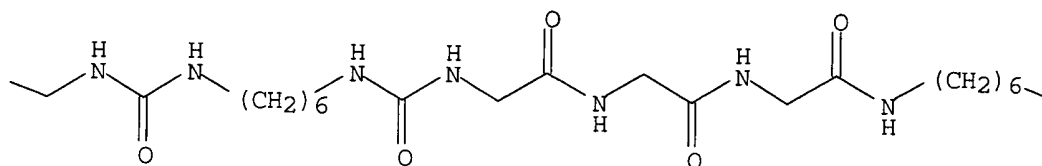
[(aminoiminomethyl)amino]-2,6-anhydro-3,4,5-trideoxy-, 7,7'-diester with  
1,1'-[1,6-hexanediylbis(iminocarbonyl)]bis[glycylglycyl-N-[6-  
(carboxyamino)hexyl]glycinamide] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

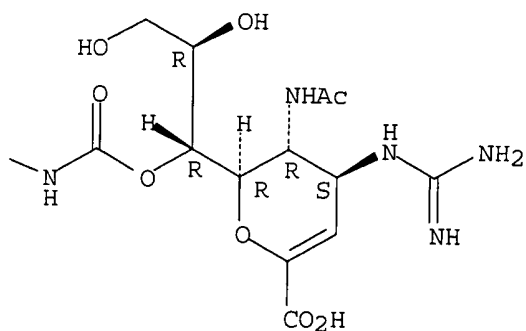
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PAGE 1-B



PAGE 1-C

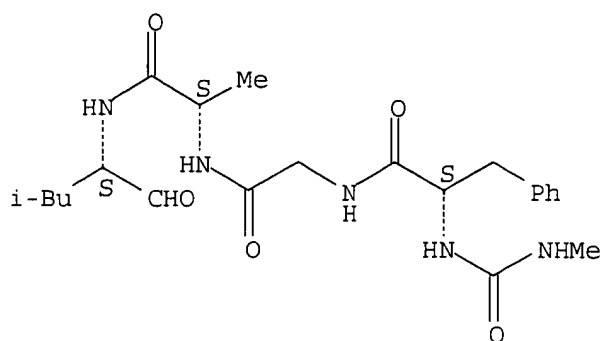


=> d hitstr 7

L6 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN







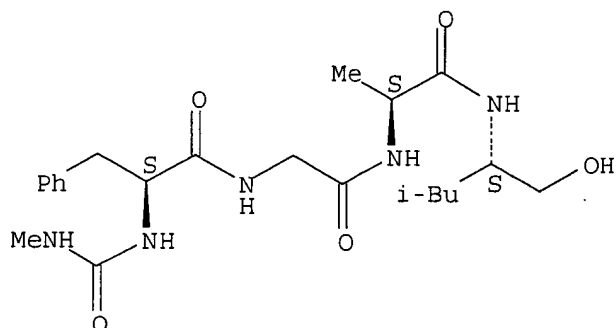
IT 204864-70-0P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(peptide aldehyde precursor; liq. detergents contg. proteolytic enzyme, peptide aldehyde and sources of boric acid)

RN 204864-70-0 CAPLUS

CN L-Alaninamide, N-[(methylamino)carbonyl]-L-phenylalanylglycyl-N-[(1S)-1-(hydroxymethyl)-3-methylbutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> did bib 8

922227 DID

2207 DIDS

923973 DID

(DID OR DIDS)

163 BIB

34 BIBS

195 BIB

(BIB OR BIBS)

2423092 8

L7

0 DID BIB 8

(DID(W)BIB(W) 8)

=> d 16 hitstr 9

L6 ANSWER 9 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN

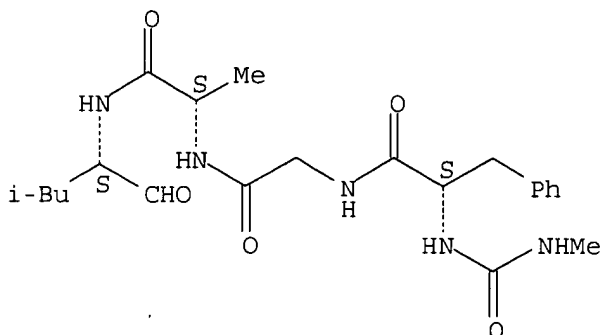
IT 156989-86-5P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (liq. laundry detergent compns. contg. proteolytic enzyme and protease inhibitors such as proteins, peptides, and peptide derivs.)

RN 156989-86-5 CAPLUS

CN L-Alaninamide, N-[(methylamino)carbonyl]-L-phenylalanylglycyl-N-[(1S)-1-formyl-3-methylbutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



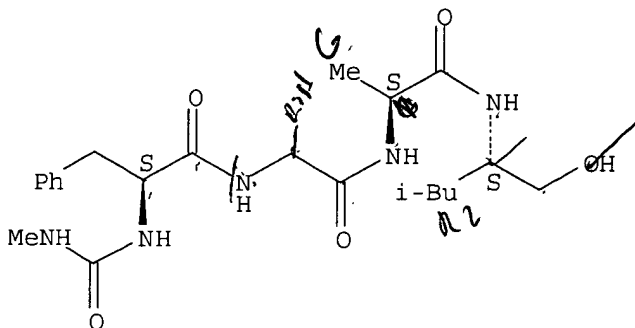
IT 204864-70-0P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (protease inhibitor precursor; liq. laundry detergent compns. contg. proteolytic enzyme and protease inhibitors such as proteins, peptides, and peptide derivs.)

RN 204864-70-0 CAPLUS

CN L-Alaninamide, N-[(methylamino)carbonyl]-L-phenylalanylglycyl-N-[(1S)-1-(hydroxymethyl)-3-methylbutyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> d bib 8,9

L7 HAS NO ANSWERS

L7 0 SEA FILE=CAPLUS ABB=ON PLU=ON DID BIB 8

=> d 16 bib 8,9

L6 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:210832 CAPLUS  
 DN 128:258745  
 TI Liquid detergents containing proteolytic enzyme, peptide aldehyde and a source of boric acid  
 IN Mciver, John Mcmillan; Huber, Alan Carl; McKillop, Kirsten Louise; Smith, Laurence Anthony  
 PA Procter & Gamble Co., USA; Mciver, John Mcmillan; Huber, Alan Carl; McKillop, Kirsten Louise; Smith, Laurence Anthony  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9813462	A1	19980402	WO 1997-US16626	19970919 <--
	W: BR, CA, CN, JP, MX, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 929636	A1	19990721	EP 1997-941697	19970919 <--
	EP 929636	B1	20021204		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	BR 9712115	A	19990831	BR 1997-12115	19970919 <--
	CN 1238002	A	19991208	CN 1997-199887	19970919 <--
	JP 2000506933	T2	20000606	JP 1998-515732	19970919 <--
	AT 229066	E	20021215	AT 1997-941697	19970919
PRAI	US 1996-26647P	P	19960924		
	WO 1997-US16626	W	19970919		

OS MARPAT 128:258745

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 9 OF 36 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1998:210831 CAPLUS  
 DN 128:258732  
 TI Liquid laundry detergent compositions containing proteolytic enzyme and protease inhibitors  
 IN Mciver, John Mcmillan; Huber, Alan Carl; Saunders, Charles Winston; Smith, Laurence Anthony  
 PA Procter & Gamble Co., USA; Mciver, John Mcmillan; Huber, Alan Carl; Saunders, Charles Winston; Smith, Laurence Anthony  
 SO PCT Int. Appl., 48 pp.  
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9813461	A1	19980402	WO 1997-US16624	19970919 <--
	W: BR, CA, CN, JP, MX, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 929642	A1	19990721	EP 1997-943377	19970919 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI				
	BR 9712114	A	19990831	BR 1997-12114	19970919 <--
	CN 1238003	A	19991208	CN 1997-199888	19970919 <--
	JP 2000506932	T2	20000606	JP 1998-515731	19970919 <--
	US 6180586	B1	20010130	US 1999-147984	19990324